

Title (en)

OPTICAL TRANSCEIVER AND METHOD OF CONTROLLING OPTICAL POWERS OF OPTICAL CHANNELS

Title (de)

OPTISCHER SENDER-EMPFÄNGER UND VERFAHREN ZUR STEUERUNG DER OPTISCHEN LEISTUNG VON OPTISCHEN KANÄLEN

Title (fr)

ÉMETTEUR-RÉCEPTEUR OPTIQUE, ET PROCÉDÉ DE COMMANDE DE PUISSANCES OPTIQUES DE CANAUX OPTIQUES

Publication

EP 3513515 A1 20190724 (EN)

Application

EP 16774558 A 20160913

Priority

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Abstract (en)

[origin: WO2018052345A1] An optical transceiver (70) comprising: an optical waveguide (12); a first and second add-drop ports (72, 74); an optical transmitter (80) coupled to a reconfigurable optical channel-add apparatus (84) comprising a first add path (86), a second add path (90), an add micro-ring resonator (100) and first and second optical attenuators (88, 92), reconfigurable to selectively block an optical channel from the optical transmitter in one of the first add path and the second add path, and wherein the add micro-ring resonator is reconfigurable selectively to add an optical channel from the first add path to the optical waveguide to travel towards the first add-drop port or to add an optical channel from the second add path to the optical waveguide to travel towards the second add-drop port; and an optical receiver (110) coupled to a reconfigurable optical channel-drop apparatus (112) comprising a drop micro-ring resonator (130), a first drop path (114), and a second drop path (118), wherein the drop micro-ring resonator is reconfigurable selectively to drop an optical channel travelling from the first add-drop port from the optical waveguide to the first drop path or to drop an optical channel travelling from the second add-drop port from the optical waveguide to the second drop path.

IPC 8 full level

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